

Non-calculator Questions

Edexcel

1.

Noah has started to build a wall using cubes.

This is the first diagram in the instructions:



The length of each side of the cubes is 1 cm

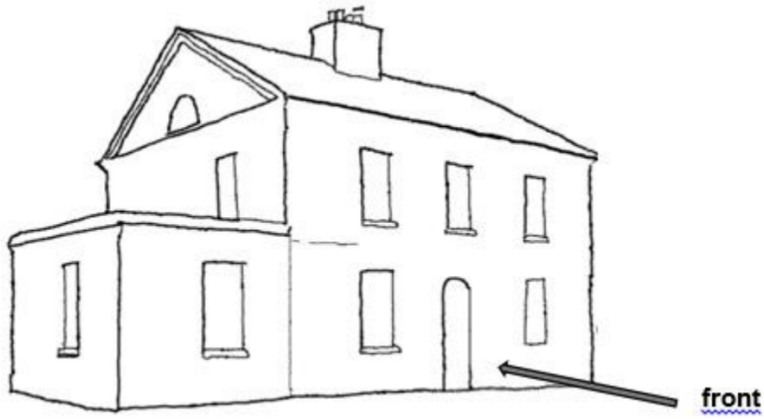
On the grid below, draw the plan view of the wall once Noah has built this part.

[1 mark]



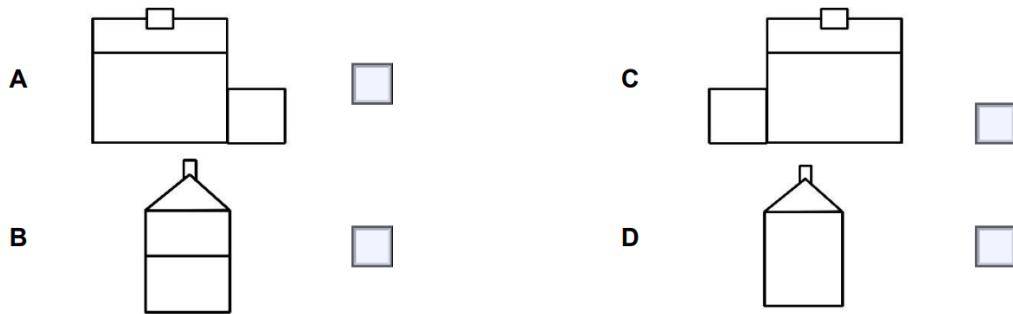
City & Guilds

2.



Which one of the following is the front elevation of the house from the view shown?

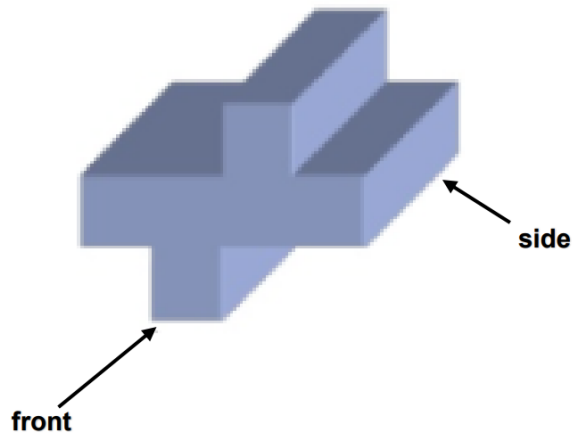
(tick one box)



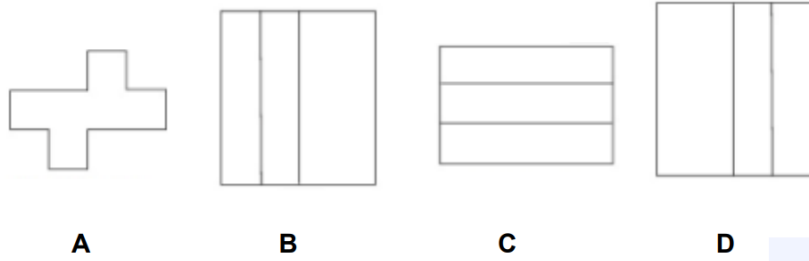
(1 mark)

3.

The diagram shows a cross section of a metal bar.



Which one of the following is the **side elevation**?



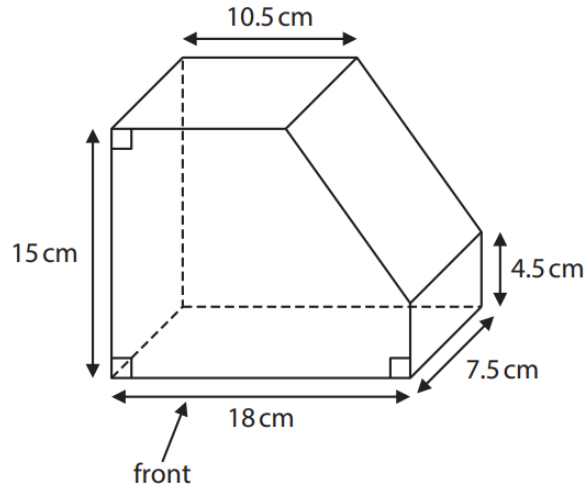
(1 mark)

Calculator Questions

Edexcel

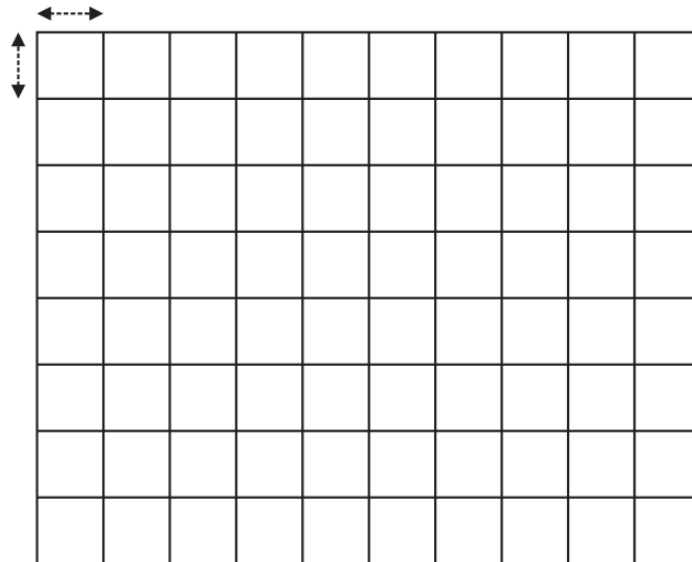
1.

Here is a prism.
The cross section of the prism is a pentagon.



Draw the front elevation of the prism on the grid.
Use the scale 1:3

(3)

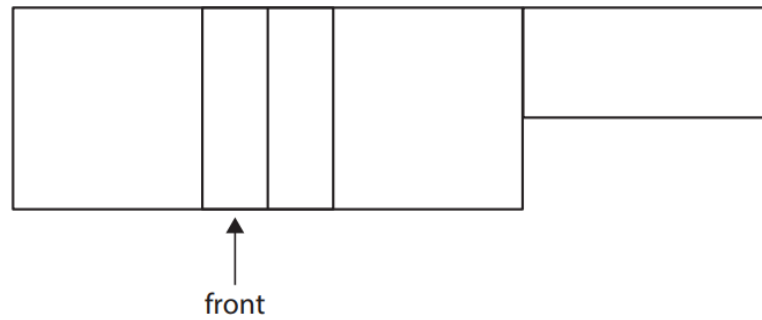


Key

←-----→ 1cm on the page

2.

Here is a plan view of another building Claire designs.

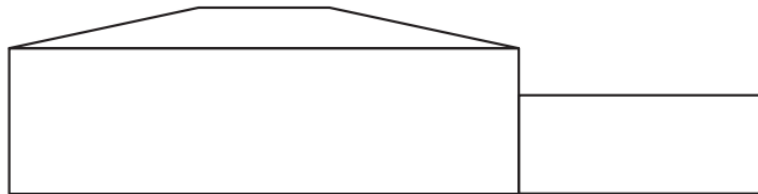


An apprentice draws the front elevation of this building.

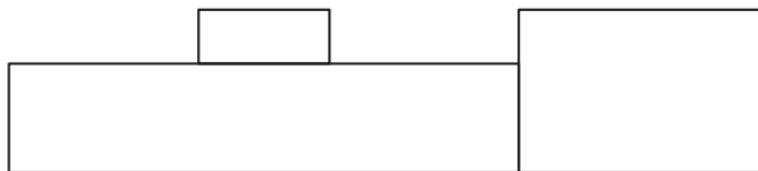
Which sketch below can be the front elevation for this building?
Tick (✓) the correct answer.

(1)

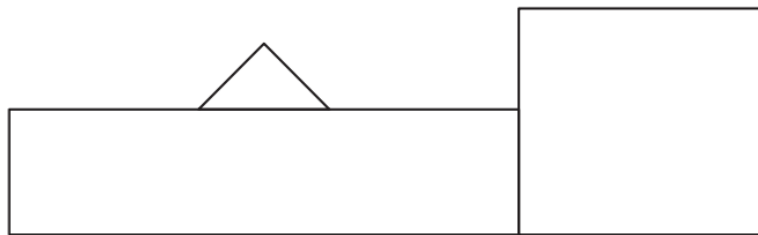
()



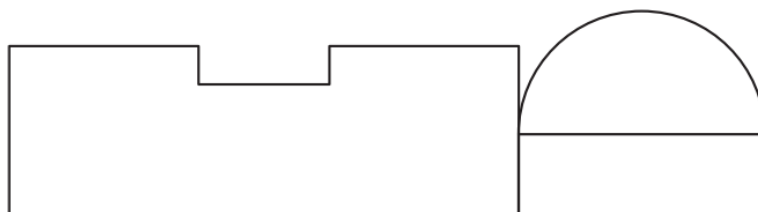
()



()



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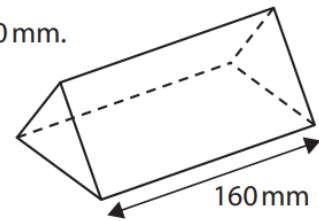


3.

Maisie is designing packaging for a perfume bottle.
The packaging is in the shape of a triangular prism with length 160 mm.

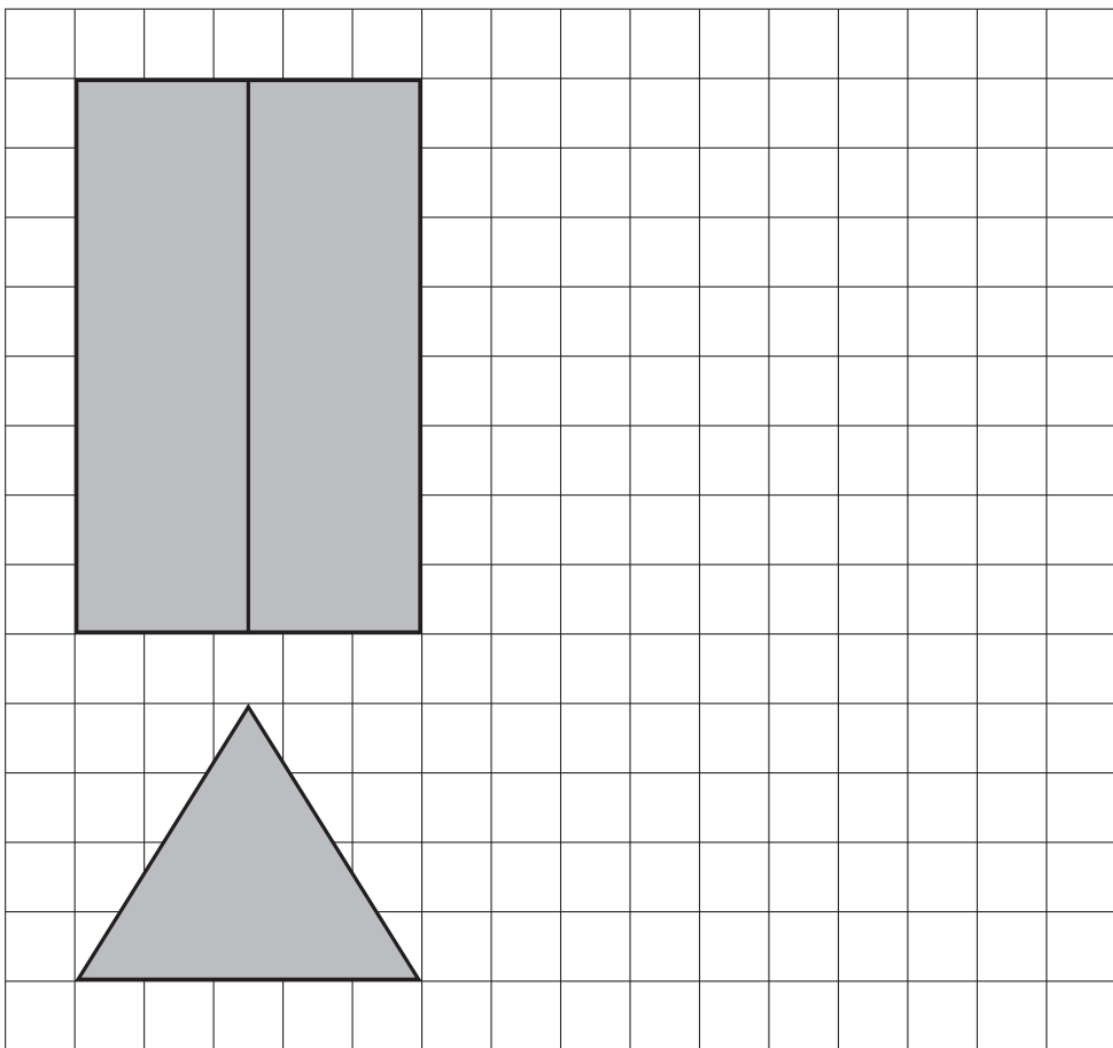
Maisie has drawn the front elevation and the plan of the prism on the centimetre grid below.

Maisie needs to draw the side elevation to complete the design drawings.



Draw the side elevation for Maisie.
Remember to complete the scale.

(3)



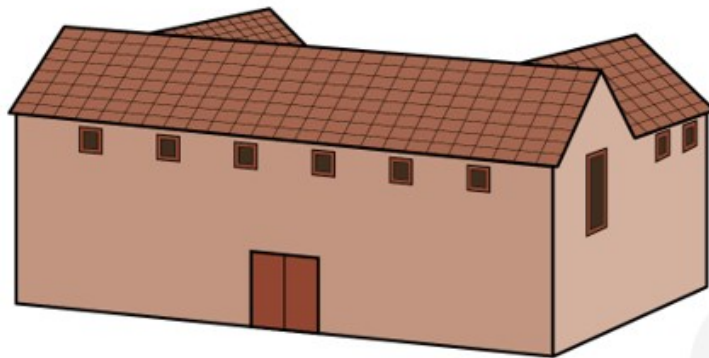
Scale 1:

NCFE

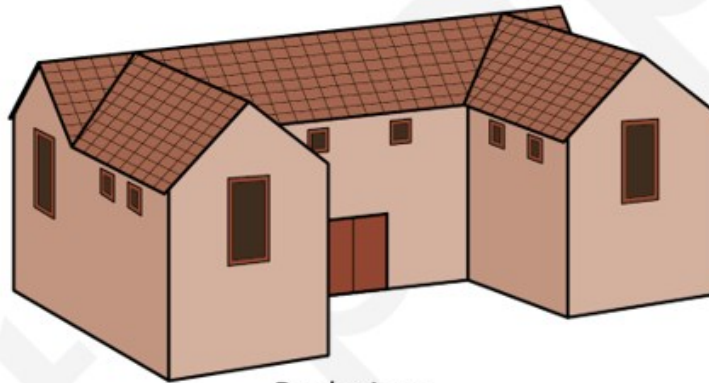
4.

The volunteers find parts of a building.

They think the building used to look like this:



Front view



Back view

Draw:

- the plan view **and**
- the side elevation of the building.

[2 marks]

Plan view:

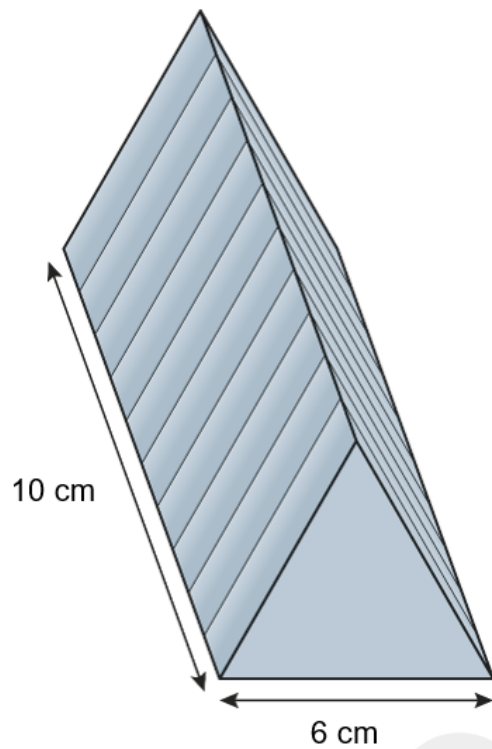
Side elevation:

past paper

5.

The company also makes a chocolate bar.

It is divided into 10 identical triangle-shaped pieces.



Not drawn
accurately

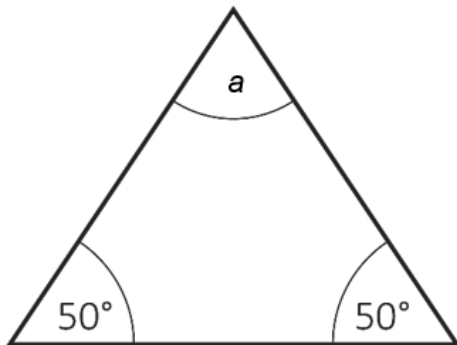
Draw a plan view of the bar in the space below.

Label the dimensions.

[3 marks]

6.

One triangular face of the chocolate bar is shown in the diagram.



Not drawn
accurately

Calculate the size of the angle labelled a

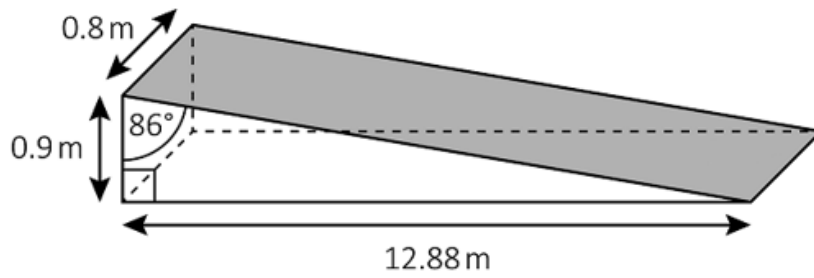
[1 mark]

Your answer:

°

7.

This diagram shows the measurements of the ramp:



Draw the plan view of the ramp as seen from above.
Include the dimensions on your drawing.

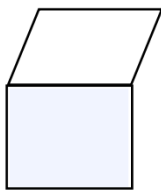
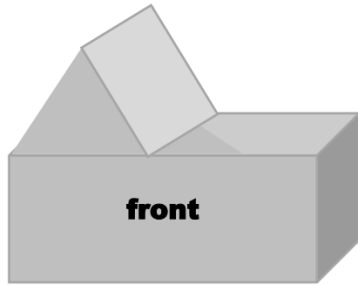
[1 mark]



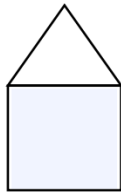
City 7 Guilds

8.

The diagram shows the outline of a building.



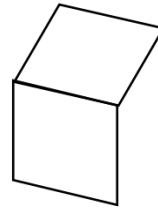
A



B



C



D

Which one of the above shows the elevation of the left side of the building?

(tick one box)

A

B

C

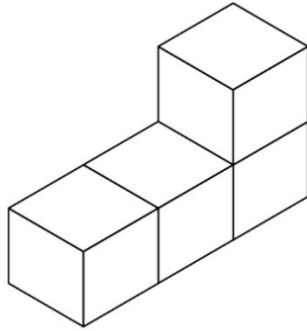
D

(1 mark)

AQA

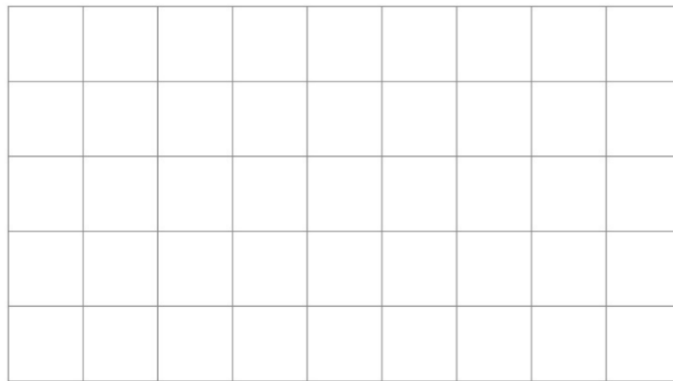
9.

Each of the **four** cubes in this L-shape has side length 1 centimetre.



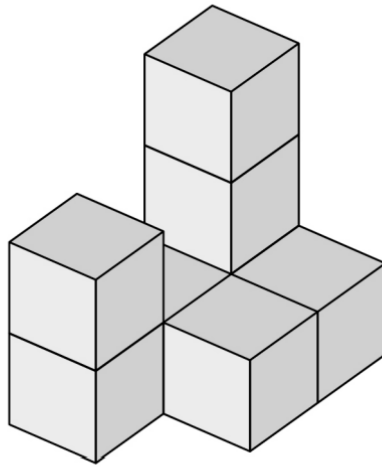
On this centimetre grid draw a plan view of the L-shape.

[1 mark]



10.

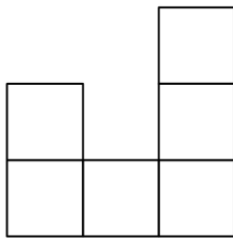
The diagram shows a 3-D shape.



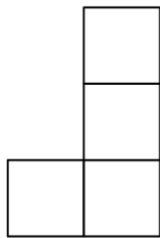
Which is the plan view of the shape?
Circle the correct letter.

[1 mark]

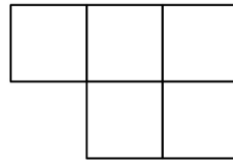
A



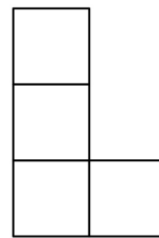
B



C

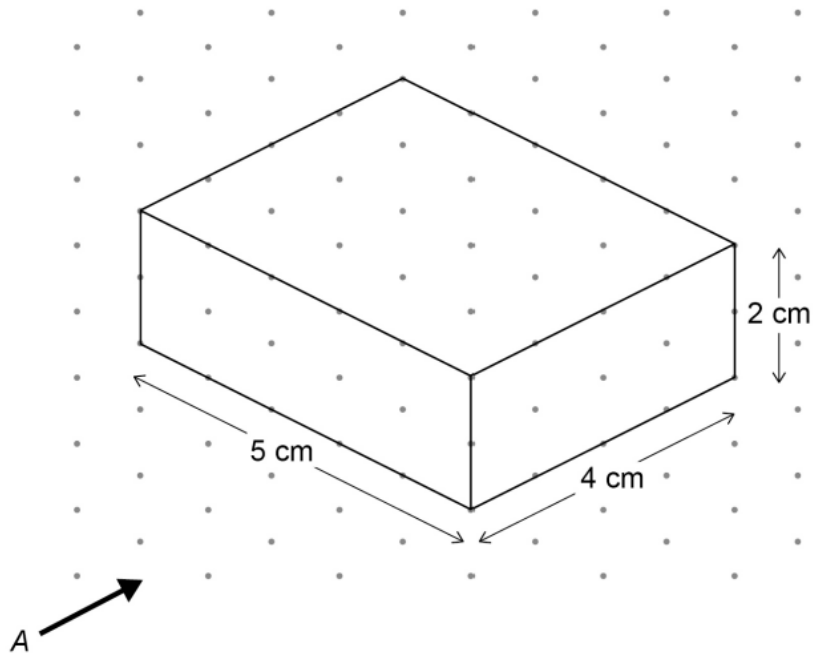


D



11.

A cuboid is shown below.



Draw the elevation of the cuboid in the direction of the arrow.

[1 mark]

